

0300 \$  
Box 509

PTO/SB/21 (08-00)

Please use a plus sign (+) inside this box → ☐

Approved for use through 10/31/02. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	10/067,832
Filing Date	June 3, 2002
First Named Inventor	Paul Zev ZIMMET et al.
Group Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket No.	229752000701

Total Number Of Pages In This Submission **23**

## ENCLOSURES (check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s) -	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment / Reply	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition for Expedited Handling	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declarations	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter
<input checked="" type="checkbox"/> Extension of Time Request - 1 Month	<input type="checkbox"/> Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	1. Copy of Notice to Comply w/attachments received from US PTO;
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	2. Paper copy of corrected Sequence Listing;
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	3. Floppy Disk with electronic version of corrected sequence listing.
<input checked="" type="checkbox"/> Response to Notice to Comply with Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures	Remarks	

## SIGNATURE OF APPLICANT, ATTORNEY OR AGENT

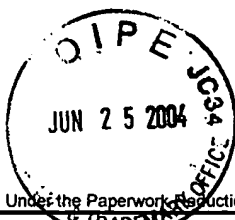
Firm Or Individual Name	Wayne C. Jaeschke, Jr., Registration No. 38,503
Signature	By James Remenick Reg No 36,902
Date	June 25, 2004

## CERTIFICATE OF HAND DELIVERY

I hereby certify that this correspondence is being hand filed with the United States Patent and Trademark Office in Alexandria, Virginia on June 25, 2004.

Debbie Labriny

Burden Hours Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Box Patent Application, Washington, DC 20231.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PTO/SB/17 (10-02)  
Approved for use through 10/31/2002. OMB 0651-0032

# FEE TRANSMITTAL for FY 2003

Patent fees are subject to annual revision.

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ ) 110.00

## Complete if Known

Application Number	10/067,832
Filing Date	June 3, 2002
First Named Inventor	Paul Zev ZIMMET et al.
Examiner Name	Not Yet Assigned
Group Art Unit	Not Yet Assigned
Attorney Docket No.	229752000701

## METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account

Deposit  
Account  
Number

03-1952

Deposit  
Account  
Name

Morrison & Foerster LLP

The Commissioner is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments

☒ Charge any additional fee(s) during the pendency of this application

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
1001	750	2001	370	Utility filing fee	
1002	330	2002	165	Design filing fee	
1003	510	2003	255	Plant filing fee	
1004	740	2004	370	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	

SUBTOTAL (1) (\$ )

### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
-20** =		18	
Independent Claims	-3** =	84	
Multiple Dependent		280	

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description
1202	9	2202	9	Claims in excess of 20
1201	84	2201	42	Independent claims in excess of 3
1203	280	2203	140	Multiple dependent claim, if not paid
1204	84	2204	42	** Reissue independent claims over original patent
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$ )

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for <i>ex parte</i> reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	110
1252	400	2252	200	Extension for reply within second month	
1253	920	2253	460	Extension for reply within third month	
1254	1,440	2254	720	Extension for reply within fourth month	
1255	1,960	2255	980	Extension for reply within fifth month	
1401	320	2401	160	Notice of Appeal	
1402	320	2402	160	Filing a brief in support of an appeal	
1403	280	2403	140	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,280	2453	640	Petition to revive - unintentional	
1501	1,280	2501	640	Utility issue fee (or reissue)	
1502	460	2502	230	Design issue fee	
1503	620	2503	310	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	740	2809	370	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	740	2810	370	For each additional invention to be examined (37CFR 1.129(b))	
1801	740	2801	370	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ ) 110

## SUBMITTED BY

Name (Print/Type) Wayne C. Jaeschke, Jr.

Registration No.  
(Attorney/Agent)

38,503

## Complete (if applicable)

Telephone (703) 760-7756

Signature

By James Remenick Reg. No. 36,902

Date

June 25, 2004



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/067,832	06/03/2002	Paul Zev Zimmet	229752000701

25227

MORRISON &amp; FOERSTER LLP

1650 TYSONS BOULEVARD

SUITE 300

MCLEAN, VA 22102

REMINDED:

DUE DATE:

FINAL DUE DATE:

*Sequence Date*  
4/25/04  
5/25/04  
10/25/04

CONFIRMATION NO. 3004

FORMALITIES LETTER



\*OC000000012191950\*

Date Mailed: 03/25/2004

**NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS  
CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE  
DISCLOSURES**

*Filing Date Granted*

Applicant is given **TWO MONTHS FROM THE DATE OF THIS NOTICE** within which to file the items indicated below to avoid abandonment. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

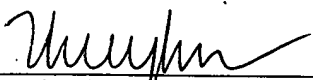
- A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing." Applicant must provide a substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d).

For questions regarding compliance to these requirements, please contact:

- For Rules Interpretation, call (703) 308-4216
- To Purchase PatentIn Software, call (703) 306-2600
- For PatentIn Software Program Help, call (703) 306-4119 or e-mail at [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or [patin3help@uspto.gov](mailto:patin3help@uspto.gov)

Replies should be mailed to: Mail Stop Missing Parts  
Commissioner for Patents  
P.O. Box 1450  
Alexandria VA 22313-1450

*A copy of this notice **MUST** be returned with the reply.*

A handwritten signature in black ink, appearing to read "Muyin", is written over a horizontal line.

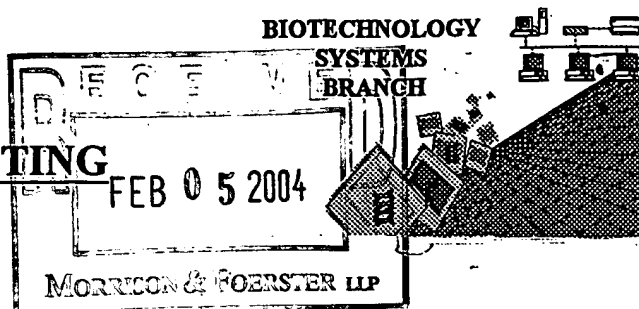
Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 1 - ATTORNEY/APPLICANT COPY



## **RAW SEQUENCE LISTING ERROR REPORT**



0590  
09/2

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/067,832A  
Source: OIPF  
Date Processed by STIC: 9/12/02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER** **VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebs/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002



OIPE

**Does Not Comply**  
**Corrected Diskette Needed**

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/067,832A

DATE: 09/12/2002

TIME: 15:41:50

Input Set : A:\EP.txt

Output Set: N:\CRF4\09122002\J067832A.raw

5 <110> APPLICANT: COLLIER, G  
 7 ZIMMET, P Z  
 11 <120> TITLE OF INVENTION: A NOVEL GENE AND USES THEREFOR  
 15 <130> FILE REFERENCE: ejh/af  
 C--> 19 <140> CURRENT APPLICATION NUMBER: US/10/067,832A  
 C--> 21 <141> CURRENT FILING DATE: 2002-06-03  
 25 <150> PRIOR APPLICATION NUMBER: PP0117  
 27 <151> PRIOR FILING DATE: 1997-10-31  
 31 <150> PRIOR APPLICATION NUMBER: PP0323  
 33 <151> PRIOR FILING DATE: 1997-11-11  
 37 <160> NUMBER OF SEQ ID NOS: 14  
 41 <170> SOFTWARE: PatentIn Ver. 2.0

## ERRORED SEQUENCES

463 <210> SEQ ID NO: 14  
 465 <211> LENGTH: 33  
 467 <212> TYPE: PRT  
 469 <213> ORGANISM: Homo sapiens  
 473 <400> SEQUENCE: 14  
 E--> 475 Met Ile Glu Val Val Cys Asn Asp Arg Leu Gly Lys Lys Val Xaa Val  
 477 1 5 10 15  
 481 Lys Cys Asn Thr Asp Asp Thr Ile Gly Asp Leu Lys Lys Leu Ile Ala  
 483 20 25 30  
 487 Ala

— See p. 3 for explanation

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/067,832A

DATE: 09/12/2002  
TIME: 15:41:51

Input Set : A:\EP.txt  
Output Set: N:\CRF4\09122002\J067832A.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41  
Seq#:1; Line(s) 43,45,47,49,51,53,55,57,59,61,63,65,67,69,71,73,75,77,78,80  
Seq#:1; Line(s) 82,84,86,88,90,92,94,96,98,100,102,104,106,108,110,112,114  
Seq#:1; Line(s) 116  
Seq#:2; Line(s) 118,120,122,124,126,128,130,132,134,136,138,140,142,144,146  
Seq#:2; Line(s) 148,150,152,154,155,157,159  
Seq#:3; Line(s) 161,163,165,167,169,171,173,175,177,179,181,183,185,187,189  
Seq#:3; Line(s) 191,193,195,197,199,201,203,205,207  
Seq#:4; Line(s) 209,211,213,215,217,219,221,223,225,227,229,231  
Seq#:5; Line(s) 232,234,236,238,240,242,244,246,248,250,252,254  
Seq#:6; Line(s) 256,258,260,262,264,266,268,270,272,274,276,278  
Seq#:7; Line(s) 280,282,284,286,288,290,292,294,296,298,300,302  
Seq#:8; Line(s) 304,306,308,309,311,313,315,317,319,321,323,325  
Seq#:9; Line(s) 327,329,331,333,335,337,339,341,343,345,347,349  
Seq#:10; Line(s) 351,353,355,357,359,361,363,365,367,369,371,373  
Seq#:11; Line(s) 375,377,379,381,383,385,386,388,390,392,394,396  
Seq#:12; Line(s) 398,400,402,404,406,408,410,412,414,416,418,420  
Seq#:13; Line(s) 422,424,426,428,430,432,434,436,438,440,442,444,446,448  
Seq#:13; Line(s) 450,452,454,456,458,460,462,463  
Seq#:14; Line(s) 465,467,469,471,473,475,477,479,481,483,485,487,489,491  
Seq#:14; Line(s) 493,495

VARIABLE LOCATION SUMMARY

DATE: 09/12/2002

PATENT APPLICATION: US/10/067,832A

TIME: 15:41:51

Input Set : A:\EP.txt

Output Set: N:\CRF4\09122002\J067832A.raw

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:13; N Pos. 44

Seq#:13; Xaa Pos. 15

Seq#:14; Xaa Pos. 15



**VERIFICATION SUMMARY**

DATE: 09/12/2002

PATENT APPLICATION: US/10/067,832A

TIME: 15:41:51

Input Set : A:\EP.txt

Output Set: N:\CRF4\09122002\J067832A.raw

L:19 M:270 C: Current Application Number differs, Replaced Application Number  
L:21 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:440 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:13  
L:440 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
L:442 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:13  
L:442 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:48  
L:475 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:14



SEQUENCE LISTING



<110> The Walter and Eliza Hall Institute of Medical Res

<120> A method of prophylaxis and treatment

<130> 2337880/EJH

<140> International

<141> 2000-10-20

<150> PQ3627

<151> 1999-10-22

<150> PQ4347

<151> 2000-10-26

<150> PQ7621

<151> 2000-05-19

<160> 1

<170> PatentIn Ver. 2.1

<210> 1

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:peptide

<400> 1

Phe Phe Tyr Thr Pro Lys Thr Arg Arg Glu Ala Glu Asp Leu Gln

1

5

10

15